

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 03-344-A	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/011320	International filing date (day/month/year) 13/04/2004	(Earliest) Priority Date (day/month/year) 15/04/2003
Applicant  SIRNA THERAPEUTICS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☒ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2004/011320

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - ☒ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☐ in written format
    - ☒ in computer readable form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed
    - ☐ filed together with the international application in computer readable form
    - ☒ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 C12N15/11 A61K31/713

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>PEIRIS J S M ET AL: "Coronavirus as a possible cause of severe acute respiratory syndrome."</p> <p>LANCET (NORTH AMERICAN EDITION), vol. 361, no. 9366, 8 April 2003 (2003-04-08), pages 1319-1325, XP002310168</p> <p>ISSN: 0099-5355</p> <p>Published online on 8. 4. 2003 (<a href="http://image.thelancet.com/extras/03art3477web.pdf">http://image.thelancet.com/extras/03art3477web.pdf</a>)</p> <p>page 1322, left-hand column, paragraph 2 -</p> <p>page 1323, left-hand column, paragraph 3</p> <p>-----</p> <p>-/--</p>	1-31

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 December 2004

Date of mailing of the international search report

05/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Barnas, C

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>KSIAZEK THOMAS G ET AL: "A novel coronavirus associated with severe acute respiratory syndrome."  NEW ENGLAND JOURNAL OF MEDICINE,  vol. 348, no. 20,  10 April 2003 (2003-04-10), pages  1953-1966, XP002310169  ISSN: 0028-4793  published online on 10.4.2003  (www.nejm.org)  page 1956, left-hand column, paragraph 2 -  page 1960, left-hand column, paragraph 2</p>	1-31
Y	<p>WO 02/097114 A (MCSWIGGEN JAMES ; RIBOZYME PHARMACEUTICALS INCOP (US))  5 December 2002 (2002-12-05)  page 4, line 23 - page 5, line 9  page 9, lines 5-15  page 17, lines 14-19  page 35, line 19 - page 36, line 3</p>	1-31
Y	<p>ELBASHIR S M ET AL: "Functional anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate"  EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB,  vol. 20, no. 23,  3 December 2001 (2001-12-03), pages  6877-6888, XP002225998  ISSN: 0261-4189  cited in the application  page 6881, right-hand column, paragraph 2 -  page 6882, left-hand column, paragraph 1  page 6884, left-hand column, paragraphs 3,4  page 6885, left-hand column, paragraph 4 -  right-hand column, paragraph 1</p>	1-31
Y	<p>PARRISH S ET AL: "Functional anatomy of a dsRNA trigger: Differential requirement for the two trigger strands in RNA interference"  MOLECULAR CELL, CELL PRESS, CAMBRIDGE, MA, US,  vol. 6, no. 5, November 2000 (2000-11),  pages 1077-1087, XP002226298  ISSN: 1097-2765  cited in the application  figures 5,6</p>	1-31
Y	<p>WO 00/44895 A (KREUTZER ROLAND ; LIMMER STEPHAN (DE)) 3 August 2000 (2000-08-03)  page 6, line 30 - page 7, line 7  page 18, lines 13-29  claims 27,28,64,65,100,101</p>	1-31

-/--

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 2004/011647 A (CHIRON CORP ; HAN JANG (US); SEO MI YOUNG (US); HOUGHTON MICHAEL (US)) 5 February 2004 (2004-02-05) page 8, paragraph 3 figures 3,4 -----	1-31
P,X	DATABASE WPI Section Ch, Week 200424 Derwent Publications Ltd., London, GB; Class B04, AN 2004-248791 XP002310172 & CN 1 465 584 A (UNIV BEIJING JIAOTONG) 7 January 2004 (2004-01-07) abstract -----	1-31
P,X	DATABASE WPI Section Ch, Week 200416 Derwent Publications Ltd., London, GB; Class B04, AN 2004-157625 XP002310173 & CN 1 458 281 A (HUANQIU ZHONGJIA BIOLOGICAL SCI & TECHNO) 26 November 2003 (2003-11-26) abstract -----	1-31
P,X	ZHANG RENLI ET AL: "Inhibiting severe acute respiratory syndrome-associated coronavirus by small interfering RNA." CHINESE MEDICAL JOURNAL (ENGLISH EDITION), vol. 116, no. 8, August 2003 (2003-08), pages 1262-1264, XP002310170 ISSN: 0366-6999 page 1263, right-hand column, paragraph 4 - page 1264, left-hand column, paragraph 1 -----	1-31
P,X	HE MING-LIANG ET AL: "Inhibition of SARS-associated coronavirus infection and replication by RNA interference." JAMA : THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. 26 NOV 2003, vol. 290, no. 20, 26 November 2003 (2003-11-26), pages 2665-2666, XP009041436 ISSN: 1538-3598 page 2665, left-hand column, paragraph 2 - page 2666, left-hand column, paragraph 5 -----	1-31

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/011320

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02097114	A	05-12-2002	EP 1390472 A2	25-02-2004
			WO 02097114 A2	05-12-2002
			WO 03070193 A2	28-08-2003
			US 2003124513 A1	03-07-2003
			US 2003175950 A1	18-09-2003
			US 2004006035 A1	08-01-2004
			WO 03070912 A2	28-08-2003
			US 2003105051 A1	05-06-2003
			US 2003170891 A1	11-09-2003
			US 2003153521 A1	14-08-2003
-----				
WO 0044895	A	03-08-2000	DE 19956568 A1	17-08-2000
			AT 222953 T	15-09-2002
			AU 3271300 A	18-08-2000
			CA 2359180 A1	03-08-2000
			WO 0044895 A1	03-08-2000
			DE 10080167 D2	28-02-2002
			DE 50000414 D1	02-10-2002
			EP 1144623 A1	17-10-2001
			EP 1214945 A2	19-06-2002
			ES 2182791 T3	16-03-2003
			JP 2003502012 T	21-01-2003
			US 2004072779 A1	15-04-2004
			US 2004053875 A1	18-03-2004
			US 2004102408 A1	27-05-2004
			ZA 200105909 A	24-07-2002
-----				
WO 2004011647	A	05-02-2004	WO 2004011647 A1	05-02-2004
-----				
CN 1465584	A	07-01-2004	NONE	
-----				
CN 1458281	A	26-11-2003	NONE	
-----				